



Tennessee Valley Authority, Post Office Box 2000, Soddy Daisy, Tennessee 37384-2000

February 13, 2019

Tennessee Department of Environment
and Conservation
Division of Water Resources
1301 Riverside Parkway, #206
Chattanooga, Tennessee 37402-2013

Dear Sir or Madam:

TENNESSEE VALLEY AUTHORITY (TVA) - FORM CN 1112 - DYE TRACE REGISTRATION

Enclosed is the completed form CN 1112, Dye Trace Registration, for dye testing to be conducted at Sequoyah Nuclear Plant. Testing is scheduled to begin the week of February 18, 2019. Tests will be conducted using about one gallon of dye to investigate a possible pipe leak at the Condenser Cooling Water (CCW) intake. The dye is expected to dissipate before reaching the Tennessee River.

If you have questions, please contact Millicent Garland, Environmental Scientist, at 423-843-6714 or at mrmoore@tva.gov.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,

A handwritten signature in dark ink, appearing to read "Matthew Rasmussen", with a long horizontal line extending to the right.

Matthew Rasmussen
Site Vice President
Sequoyah Nuclear Plant

Enclosures

cc (Enclosures):

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555



TENNESSEE DEPARTMENT OF ENVIRONMENT & CONSERVATION
DIVISION OF WATER RESOURCES – DRINKING WATER UNIT
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor, Nashville, Tennessee 37243-1102

Tennessee Department of Environment & Conservation
Dye Trace Registration

Name, Address, Phone number of the Owner/Operator of the Facility Necessitating the Trace: TVA Sequoyah Nuclear Plant 2600 Sequoyah Access Rd. Soddy-Daisy, TN 37379 (423) 843-6502	Name, Address, Phone Number of the Person/Company performing the Trace: TVA Instrumentation Engineering Services 129 Pine Rd. Norris, TN 37828 (865) 632-1425																																				
Name and Address and Phone Number of the Property Owner: Tennessee Valley Authority 400 W. Summit Hill Dr. Knoxville, TN 37902 (865) 544-5400	Reason For the Trace: Locate source of in-leakage																																				
If State or Federal Agency Oversight, Give Agency Contact Information	Is the Area Served by a Public Water System <input checked="" type="checkbox"/> Yes: Name the Water System <u>TN River</u> <input type="checkbox"/> No: Estimate Percentage of Private Well/Spring Use Versus Public Water Use																																				
Dyes to Be Used <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 20%;">Type</th><th style="width: 20%;">Amount</th><th style="width: 80%;">Location</th></tr></thead><tbody><tr><td>Rhodamine WT</td><td>~1 gallon</td><td>Condenser Circulating Water Intake</td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td></tr></tbody></table>	Type	Amount	Location	Rhodamine WT	~1 gallon	Condenser Circulating Water Intake																			Receptors <input checked="" type="checkbox"/> Type <u>Cyclops 7F</u> <input checked="" type="checkbox"/> Visual Location of Receptors <table border="1" style="width: 100%; border-collapse: collapse;"><thead><tr><th style="width: 60%;">Adjacent to CCW intake bldg.</th><th style="width: 40%;"> </th></tr></thead><tbody><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr><tr><td> </td><td> </td></tr></tbody></table>	Adjacent to CCW intake bldg.											
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Describe Injection Point(s) and Include a copy of a Topographic Map with the locations of the injection points and the locations of receptors (include a Latitude and Longitude for the primary injection point.) The dye will be placed in the forebay of condenser circulating water intake pumping area.																																					
Public Water Systems: List Surface Water Intakes, Wells or Springs within 2 Miles of the Injection Point(s): <u>None</u>																																					
<p style="text-align: center;">Certification</p> <p>I certify under penalty of law that this document and all attachments were prepared by me, or under my direction or supervision. The submitted information is to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. As specified in Tennessee Code Annotated Section 39-16-702(a)(4), this declaration is made under penalty of perjury.</p>																																					
Name and Official Title(please print)	Signature 	Date Signed <u>2/13/18</u>																																			

There are currently no regulations requiring dye trace registration in Tennessee, unless there is the potential to impact a public water system. This registry is designed to avoid cross contamination and re-performing the same or similar trace. The dye tracing registry allows the Department to make informed responses to water pollution inquiries so that dye traces are not mistakenly identified as pollution to waters of the state.